FIGURE 1

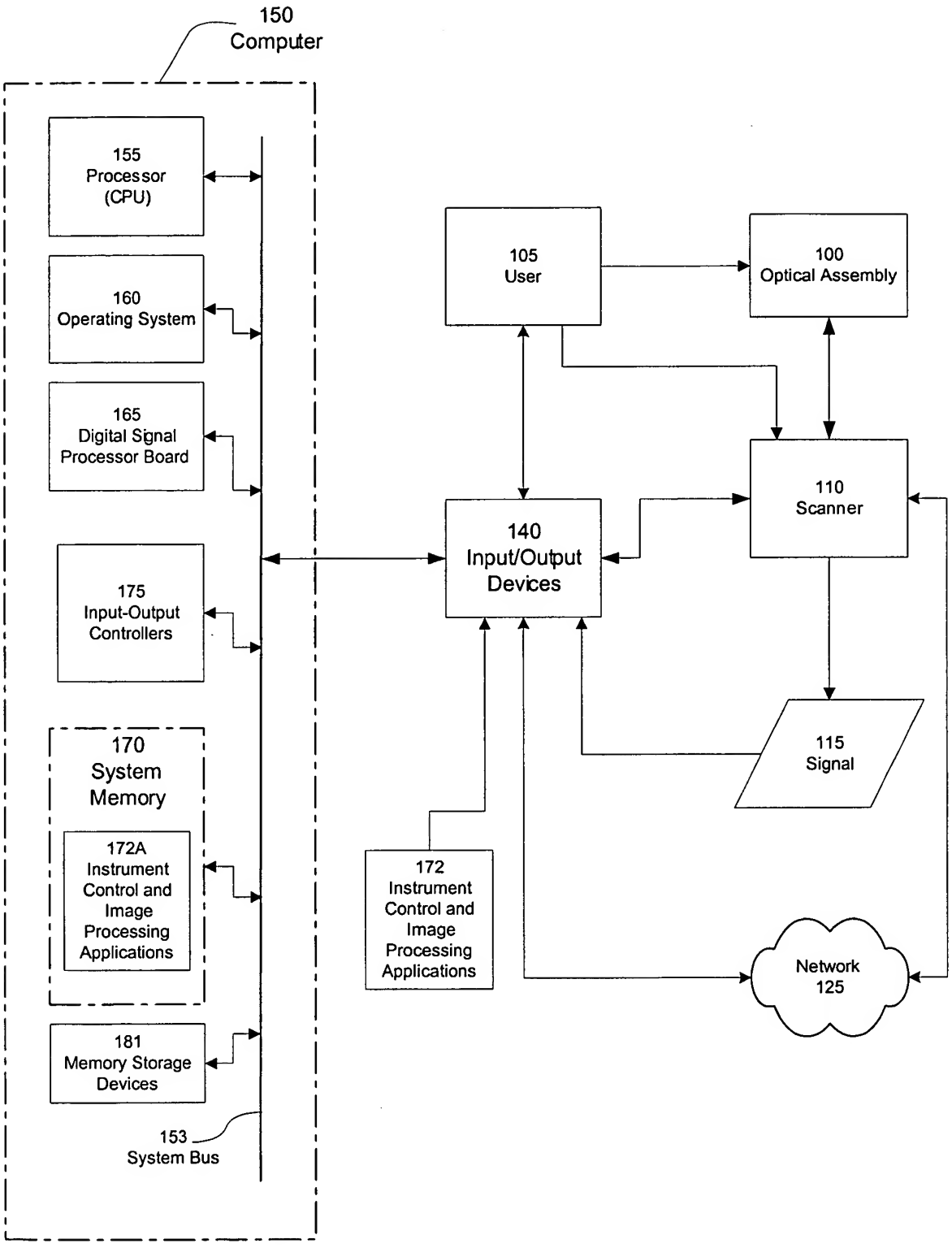

150
Computer
155
Processor
(CPU)
160
Operating System
165
Digital Signal
Processor Board
175
Input-Output
Controllers
170
System
Memory
172A
Instrument
Control and
Image
Processing
Applications
181
Memory Storage
Devices
153
System Bus
105
User
100
Optical Assembly
110
Scanner
140
Input/Output
Devices
115
Signal
172
Instrument
Control and
Image
Processing
Applications
Network
125

FIGURE 2A

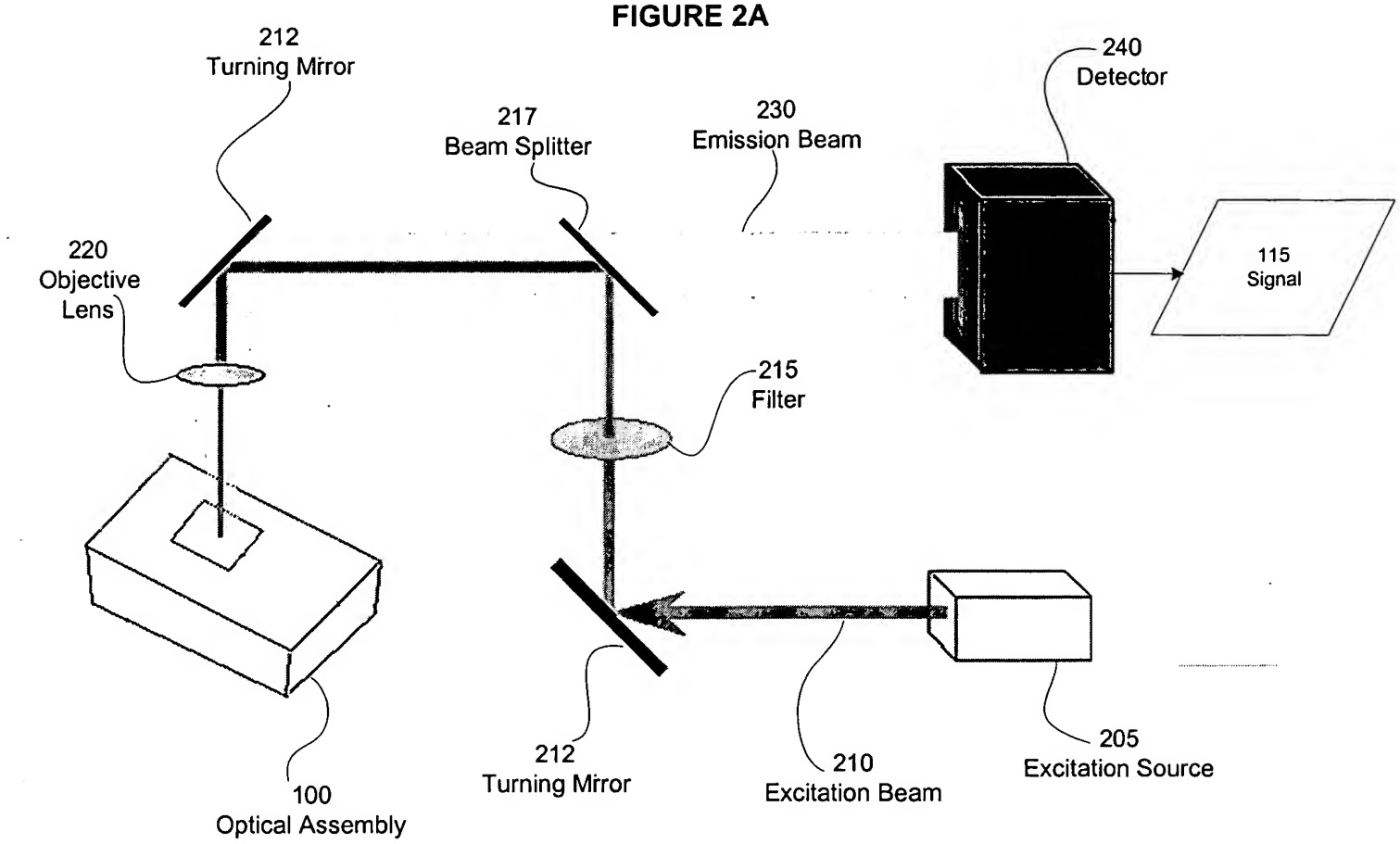


FIGURE 2B

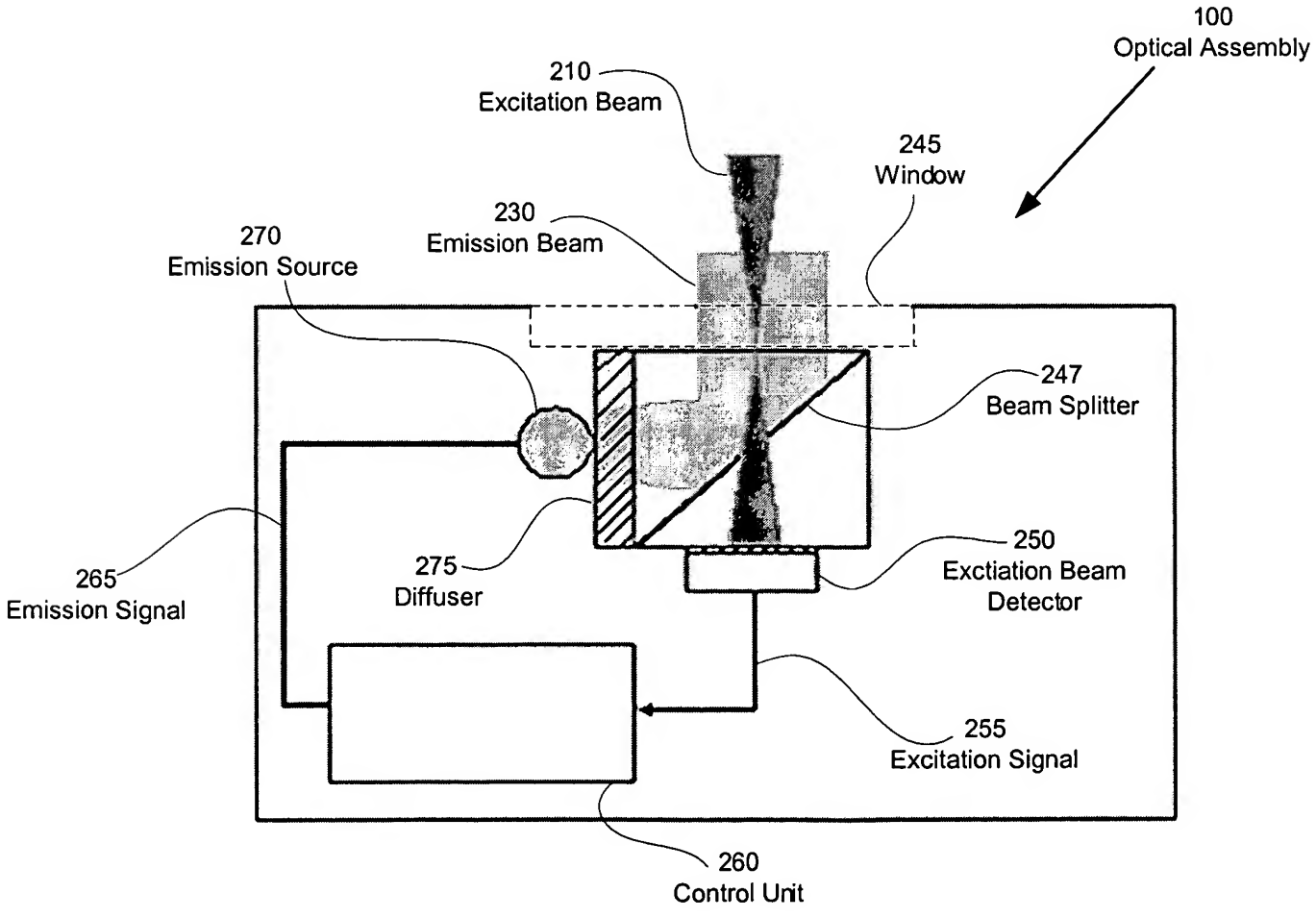
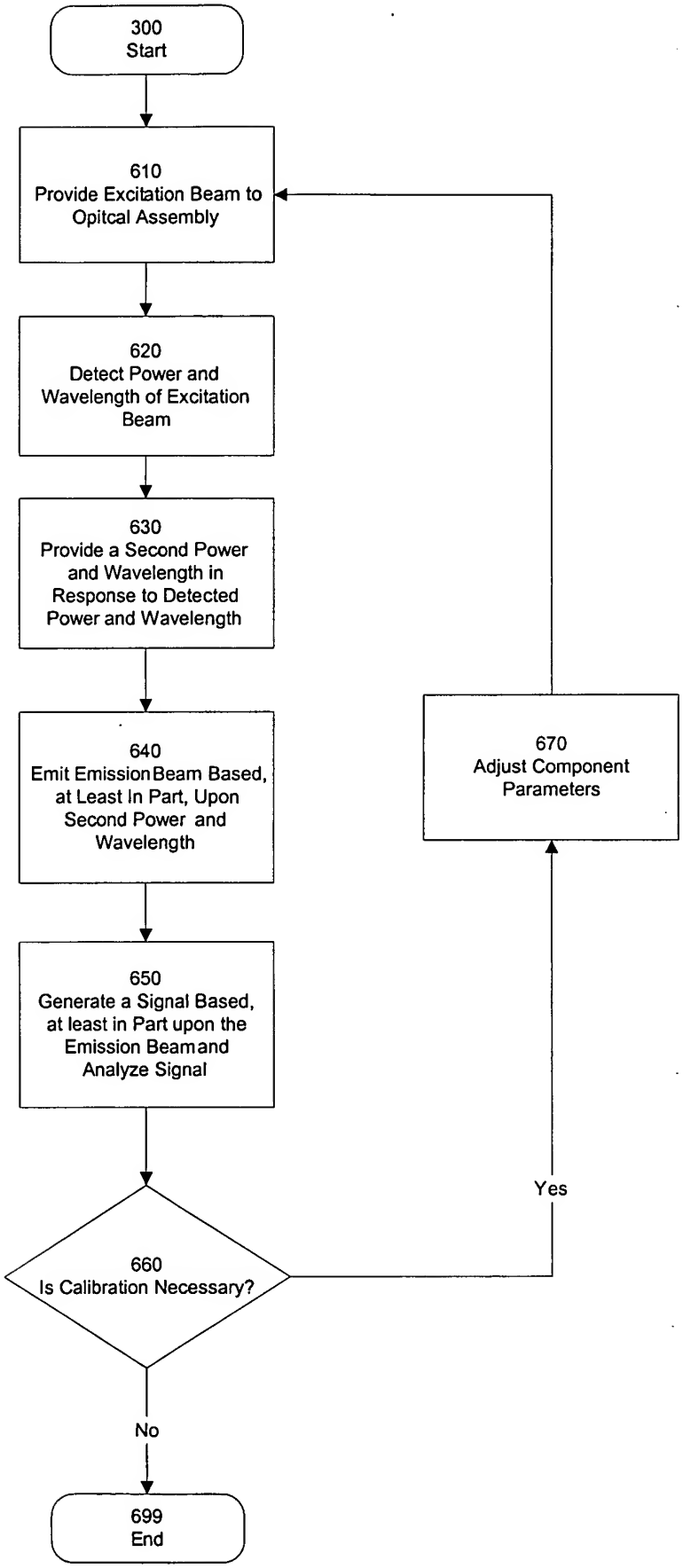


FIGURE 3


300
Start
610
Provide Excitation Beam to Opitcal Assembly
620
Detect Power and Wavelength of Excitation Beam
630
Provide a Second Power and Wavelength in Response to Detected Power and Wavelength
640
Emit Emission Beam Based, at Least In Part, Upon Second Power and Wavelength
650
Generate a Signal Based, at least in Part upon the Emission Beam and Analyze Signal
660
Is Calibration Necessary?
Yes
670
Adjust Component Parameters
No
699
End